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(FILE 'CAPLUS' ENTERED AT 15:09:13 ON 26 FEB 2005)  
DEL HIS

FILE 'REGISTRY' ENTERED AT 15:13:29 ON 26 FEB 2005

L1 STRUCTURE UPLOADED

L2 1 S L1

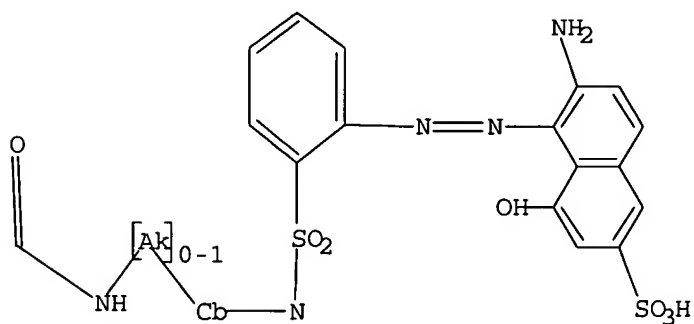
L3 12 S L1 FULL

FILE 'CAPLUS' ENTERED AT 15:14:11 ON 26 FEB 2005

L4 3 S L3

=> d que 14 stat

L1 STR



Structure attributes must be viewed using STN Express query preparation.

L3 12 SEA FILE=REGISTRY SSS FUL L1

L4 3 SEA FILE=CAPLUS ABB=ON PLU=ON L3

=> d 1-3 bib abs hitstr

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2005:75790 CAPLUS

DN 142:144381

TI Colored curable compositions, color filters with good light, heat, and solvent resistance, and manufacture thereof

IN Araki, Katsumi

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 41 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 2005024916	A2	20050127	JP 2003-190452	20030702
PRAI	JP 2003-190452		20030702		

AB The compns., showing wide development latitude, high resolution, and high transmittance, contain binders and colorants containing compds. of aggregation energy d. of  $\geq 25.0$  MPa1/2. Color filters with the title advantages are manufactured by application of the above compns. on supports followed by exposure via masks and development.

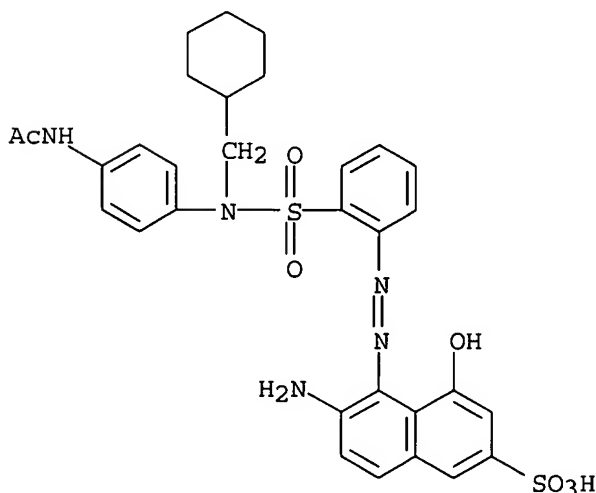
IT 778635-23-7 778635-25-9 778635-27-1  
778635-29-3

RL: TEM (Technical or engineered material use); USES (Uses)

(dyes; curable compns. containing dyes with high aggregation energy d. for color filters with good light, heat, and chemical resistance)

RN 778635-23-7 CAPLUS

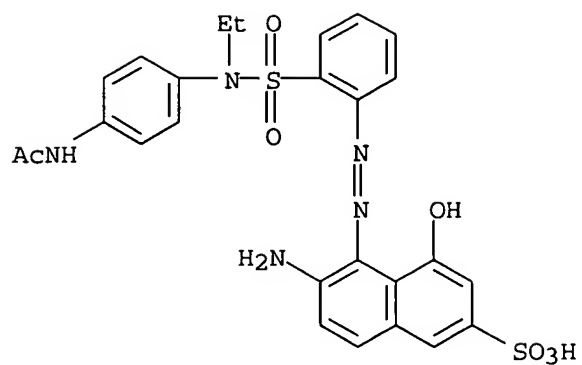
CN 2-Naphthalenesulfonic acid, 5-[[2-[[[4-(acetylamino)phenyl](cyclohexylmethyl)amino]sulfonyl]phenyl]azo]-6-amino-4-hydroxy-, monosodium salt (9CI)  
(CA INDEX NAME)



● Na

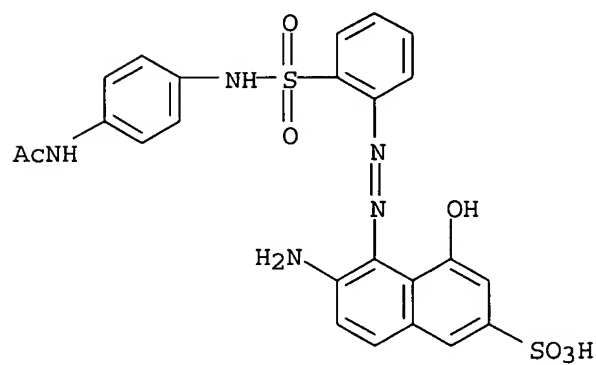
RN 778635-25-9 CAPLUS

CN 2-Naphthalenesulfonic acid, 5-[[2-[[[4-(acetylamino)phenyl]ethylamino]sulfonyl]phenyl]azo]-6-amino-4-hydroxy-, monosodium salt (9CI) (CA INDEX NAME)



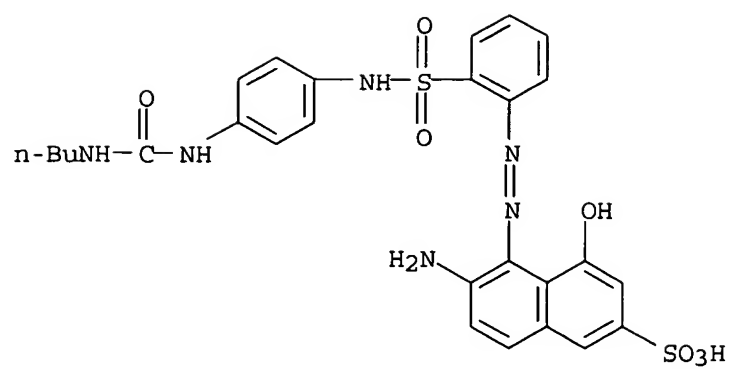
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RN 778635-27-1 CAPLUS  
 CN 2-Naphthalenesulfonic acid, 5-[[2-[[[4-(acetamido)phenyl]amino]sulfonyl]phenyl]azo]-6-amino-4-hydroxy-, monosodium salt (9CI) (CA INDEX NAME)



● Na

RN 778635-29-3 CAPLUS  
 CN 2-Naphthalenesulfonic acid, 6-amino-5-[[2-[[[4-[[[(butylamino)carbonyl]amino]phenyl]amino]sulfonyl]phenyl]azo]-4-hydroxy-, monosodium salt (9CI) (CA INDEX NAME)



● Na

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:904151 CAPLUS

DN 141:372906

TI Coloring material-containing curable compositions with good developability and heat and light resistance for color filters and their production method

IN Araki, Katsumi

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 48 pp.

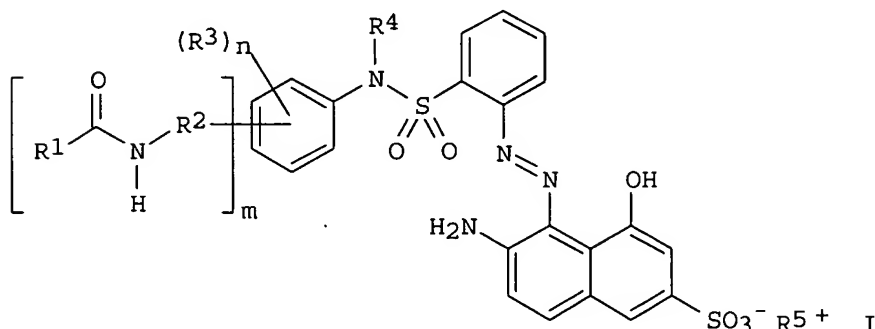
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004300371	A2	20041028	JP 2003-97800	20030401
	US 2004260075	A1	20041223	US 2004-813622	20040331
PRAI	JP 2003-97799	A	20030401		
	JP 2003-97800	A	20030401		
OS	MARPAT 141:372906				
GI					



AB Title compns. comprise binders and azo compound colorants I, wherein R1 = C1-21 alkyl, aryl, aralkyl, alkylamino, aralkylamino, or arylamino, C1-10 perfluoroalkyl, C2-21 alkenyl, methacryloylamino, or ethoxycarbonylamino; R2 = single bond, CH2, CH2CH2, CH2CH2CH2, or CH2CH2CH2CH2; R3 = H, C1-21 alkyl or alkoxy, halogen atom, or OH; R4 = H, C1-21 alkyl, aryl, or aralkyl, or C2-21 alkenyl; R5 = H, cationic metal atom, nitrogen-containing cationic compound; m = 0-2 integer; and n = 0-4 integer. Thus, 9.4 parts a resist solution comprising propylene glycol monomethyl ether acetate 19.20, Et lactide 36.67, 41% allyl methacrylate-methacrylic acid copolymer solution 30.51, dipentaerythritol hexaacrylate 12.20, p-methoxyphenol 0.0061, F 475 fluorosurfactant 0.83, and 2-(o-benzoyloxim)-1-[4-(phenylthio)phenyl]-1,2-octanedione 0.586 parts and 0.6 parts azo compound were mixed, applied on a primer-coated glass substrate, prebaked at 120° for 120 s, irradiated through a mask, developed, and washed to give a test piece with good developability and heat and light resistance.

IT 778635-23-7 778635-25-9 778635-27-1

778635-29-3 778635-31-7

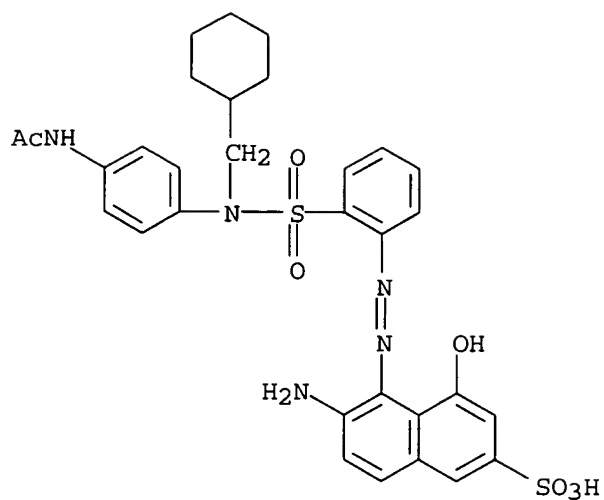
RL: MOA (Modifier or additive use); USES (Uses)

(colorant; coloring material-containing curable compns. with good developability and heat and light resistance for color filters)

RN 778635-23-7 CAPLUS

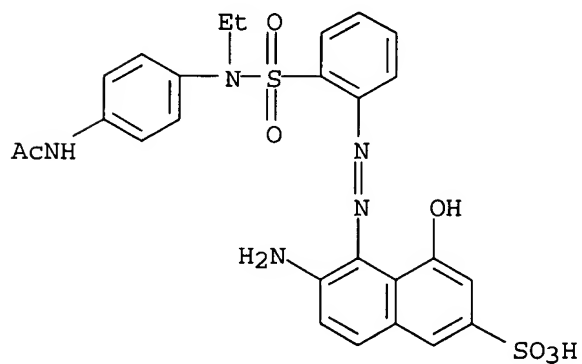
CN 2-Naphthalenesulfonic acid, 5-[[2-[[[4-(acetylamino)phenyl](cyclohexylmethyl)amino]sulfonyl]phenyl]azo]-6-amino-4-hydroxy-, monosodium salt (9CI)  
(CA INDEX NAME)

applicant



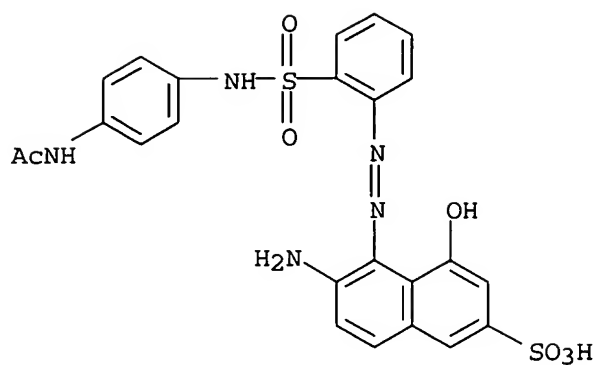
● Na

RN 778635-25-9 CAPLUS  
 CN 2-Naphthalenesulfonic acid, 5-[[2-[[[4-(acetamido)phenyl]ethylamino]sulfonyl]phenyl]azo]-6-amino-4-hydroxy-, monosodium salt (9CI) (CA INDEX NAME)



● Na

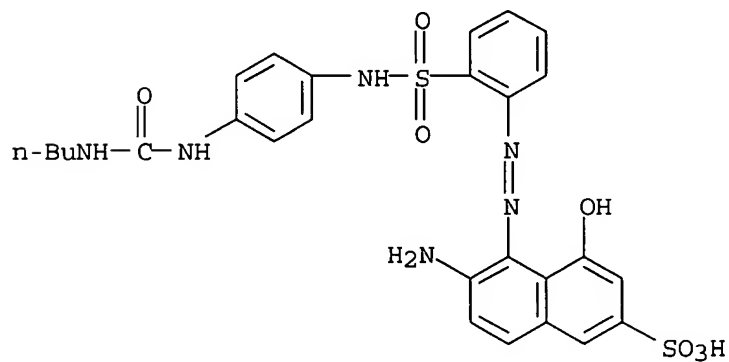
RN 778635-27-1 CAPLUS  
 CN 2-Naphthalenesulfonic acid, 5-[[2-[[[4-(acetamido)phenyl]amino]sulfonyl]phenyl]azo]-6-amino-4-hydroxy-, monosodium salt (9CI) (CA INDEX NAME)



● Na

RN 778635-29-3 CAPLUS

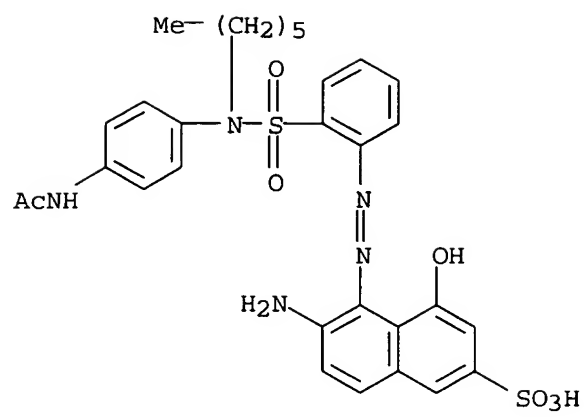
CN 2-Naphthalenesulfonic acid, 6-amino-5-[[2-[[[4-  
[[ (butylamino) carbonyl] amino] phenyl] amino] sulfonyl] phenyl] azo] -4-hydroxy-,  
monosodium salt (9CI) (CA INDEX NAME)



● Na

RN 778635-31-7 CAPLUS

CN 2-Naphthalenesulfonic acid, 5-[[2-[[[4-(acetamido)phenyl]hexylamino]sulfonyl]phenyl]azo]-6-amino-4-hydroxy-, monosodium salt (9CI) (CA INDEX NAME)



● Na



L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN  
 AN 1970:404952 CAPLUS  
 DN 73:4952  
 TI Polymerizable dyes  
 IN Booth, Gerald; Tinker, Barrie; Parsons, Brian N.  
 PA Imperial Chemical Industries Ltd.  
 SO Ger. Offen., 75 pp.  
 CODEN: GWXXBX  
 DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 1919588	A	19691030	DE 1969-1919588	19690417
	GB 1252453	A	19711103	GB 1968-18101	19680417
	BE 731683	A	19691017	BE 1969-731683	19690417
	NL 6905927	A	19691021	NL 1969-5927	19690417
	FR 2006386	A5	19691226	FR 1969-12044	19690417
PRAI	GB 1968-18101	A	19680417		
	GB 1968-18110	A	19680417		

AB Dyes containing CH<sub>2</sub>:CRCONH groups (R = H, Me), useful for dyeing cellulose and natural and synthetic polyamide fibers fast shades, were prepared Thus, a solution of 4.6 parts 2,4-(CH<sub>2</sub>:CHCONH)2C<sub>6</sub>H<sub>3</sub>NH<sub>2</sub> (I) in a mixture of 250 parts H<sub>2</sub>O and 60 parts Me<sub>2</sub>CO was added with stirring at 10° to a suspension of CuPc(SO<sub>2</sub>Cl)<sub>3</sub> (Pc = phthalocyanine) (prepared from 5.8 parts CuPc in 150 parts H<sub>2</sub>O while adding aqueous Na<sub>2</sub>CO<sub>3</sub> to maintain Ph 7), stirred for 2 hr, treated with 4.2 parts NaHCO<sub>3</sub>, stirred for 10 hr, treated with 2 parts pyridine, stirred for 24 hr, adjusted to pH 2 with HCl, and salted to give a turquoise blue dye for wool and cotton. Similarly, other dyes were prepared (reactants and shade given): 1-amino-4-(3-sulfoanilino)anthraquinone-2-sulfonyl chloride, I, blue on wool; 1-amino-4-[3-[3,4-bis(acryloylamino)anilinosulfonyl]anilino]anthraquinone-2-sulfonic acid, Me<sub>2</sub>SO<sub>4</sub>, blue on wool; 3-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>NHCONHC<sub>6</sub>H<sub>3</sub>(NHCOCMe:CH<sub>2</sub>)<sub>2</sub> (m. 193-5°) → 1-(4-sulfophenyl)-3-methyl-5-pyrazolone, yellow on wool; 1-amino-4-bromoanthraquinone-2-sulfonic acid (II), 3,4-(CH<sub>2</sub>:CMeCONH)2C<sub>6</sub>H<sub>3</sub>NH<sub>2</sub> (III) (m. 154°), blue on wool; 1-(β-sulfatoethylamino)-4-bromoanthraquinone, III, blue on wool and nylon; II, 3,4-(CH<sub>2</sub>:CMeCONH)2C<sub>6</sub>H<sub>3</sub>NHCH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>NH<sub>2</sub>-3 m. 136°, blue on wool and nylon; 3,4-(CH<sub>2</sub>:CMeCONHC<sub>6</sub>H<sub>3</sub>NHSO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>NH<sub>2</sub>-2 (m. 160-1°) → 2,8,6-H<sub>2</sub>N(HO)C<sub>10</sub>H<sub>5</sub>SO<sub>3</sub>H, bluish red on wool and nylon; 3,4-(CH<sub>2</sub>:CMeCONH)2C<sub>6</sub>H<sub>3</sub>NHSO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>NH<sub>2</sub>-3 (m. 214-16° → 1-(2,5-dichloro-4-sulfophenyl)-3-methyl-5-pyrazolone, greenish yellow on wool and nylon; 2,5,4-Cl<sub>2</sub>(H<sub>2</sub>N)C<sub>6</sub>-H<sub>2</sub>SO<sub>2</sub>NHC<sub>6</sub>H<sub>3</sub>(NHCOCH:CH<sub>2</sub>)<sub>2</sub>-2,4 [m. 266° (decomposition)] → 3-MeC<sub>6</sub>H<sub>4</sub>N(CH<sub>2</sub>CH<sub>2</sub>OH)<sub>2</sub>, red on polyamide; 1-(4,6-dichloro-s-triazin-2-ylamino)-7-(2-sulfophenylazo)-8-naphthol-3,6-disulfonic acid, I, reddish blue on cellulose; 2-chloro-4-(3-amino-4-sulfoanilino)-6-[3,4-bis(acryloylamino)anilino]-s-triazine → 1,8,3,6-AcNH(HO)C<sub>10</sub>H<sub>4</sub>(SO<sub>3</sub>H)<sub>2</sub>, bluish red on cellulose, I, Cu complex of 1-(4,6-dichloro-s-triazin-2-ylamino)-7-(5-chloro-6-hydroxy-3-sulfophenylazo)-2-hydroxy-3,6-naphthalenedisulfonic acid, purple on cellulose; I, cyanuric chloride, 1-amino-4-(3-sulfo-4-aminoanilino)anthraquinone-2-sulfonic acid, blue on cellulose; II, 3,4-(CH<sub>2</sub>:CMeCONH)2C<sub>6</sub>H<sub>3</sub>NHSO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>NH<sub>2</sub>-3, reddish blue on wool and nylon. The following intermediates were also prepared: 3,4-(CH<sub>2</sub>:CHCONH)2C<sub>6</sub>H<sub>3</sub>X (IV, X = NO<sub>2</sub>), m. 203°; IV (X = NHAc), 199-201°; IV (X = NH<sub>2</sub>), m. 234°; 3,4-(CH<sub>2</sub>:CMeCONH)2C<sub>6</sub>H<sub>3</sub>X (V, X = NO<sub>2</sub>), m. 164° V (X = NHCONHC<sub>6</sub>H<sub>4</sub>NO<sub>2</sub>-3), m. 238-9°; 3,4-CH<sub>2</sub>:CHCONH(CH<sub>2</sub>:CHCONMe)C<sub>6</sub>H<sub>3</sub>X (VI, X = NH<sub>2</sub>), m. 158-60°; VI (X = NO<sub>2</sub>), m. 206°; 3,4-CH<sub>2</sub>:CMeCONH(CH<sub>2</sub>:CHCONH)C<sub>6</sub>H<sub>3</sub>X (VII, X = NH<sub>2</sub>), m. 185-7°; VII (X = NO<sub>2</sub>), m. 182-4°; 6-amino-1,4-diacryloyl-1,2,3,4-tetrahydroquinoxaline, m 176°; 6-nitro-1,4-diacryloyl-1,2,3,4-tetrahydroquinoxaline. m. 122° (MeOH); 3,4-

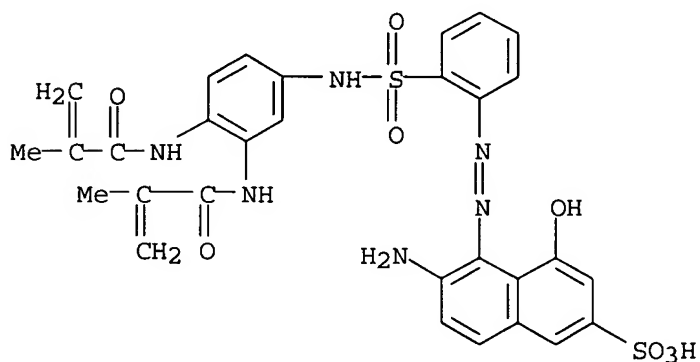
(CH<sub>2</sub>:CMeCONH) 2C<sub>6</sub>H<sub>3</sub>NHCH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>NO<sub>2</sub>-3, m. 191-2.5°; 2,5-  
 Cl (H<sub>2</sub>N) C<sub>6</sub>H<sub>3</sub>SO<sub>2</sub>NHC<sub>6</sub>H<sub>3</sub> (nHCOMe:CH<sub>2</sub>) 2-3,4, m. 218-19°;  
 3,4- (CH<sub>2</sub>:CMeCONH) 2C<sub>6</sub>H<sub>3</sub>NHSO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>NO<sub>2</sub>-3, m. 198-9°;  
 3,4- (CH<sub>2</sub>:CMeCONH) 2C<sub>6</sub>H<sub>3</sub>NHCH<sub>2</sub>CH<sub>2</sub>OC<sub>6</sub>H<sub>4</sub>NO<sub>2</sub>-x (VIII, x = 4), m. 181-2; VIII, x  
 = 3, m. 148-9°.

IT **27080-30-4P**

RL: IMF (Industrial manufacture); PREP (Preparation)  
 (preparation of)

RN 27080-30-4 CAPLUS

CN 2-Naphthalenesulfonic acid, 6-amino-5-[[o-[(3,4-  
 dimethacrylamidophenyl)sulfamoyl]phenyl]azo]-4-hydroxy-, monosodium salt  
 (8CI) (CA INDEX NAME)



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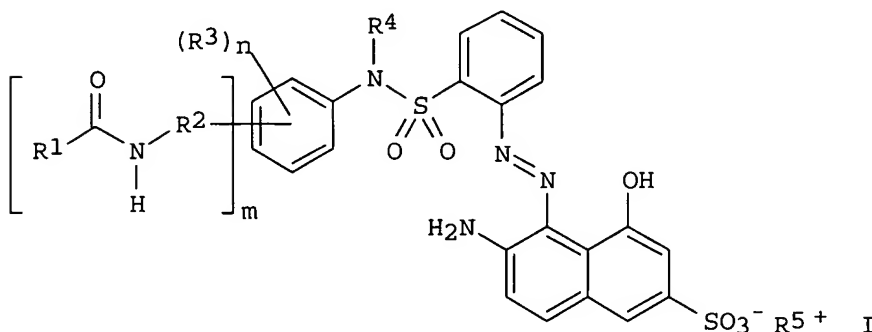
L5           57 SEA FILE=CAPLUS ABB=ON   PLU=ON   "ARAKI KATSUMI"/AU

L6           1 SEA FILE=CAPLUS ABB=ON   PLU=ON   L5 AND AZO

=> d bib abs

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2004:904151 CAPLUS  
 DN 141:372906  
 TI Coloring material-containing curable compositions with good developability and heat and light resistance for color filters and their production method  
 IN Araki, Katsumi  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 48 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004300371	A2	20041028	JP 2003-97800	20030401
	US 2004260075	A1	20041223	US 2004-813622	20040331
PRAI	JP 2003-97799	A	20030401		
	JP 2003-97800	A	20030401		
OS	MARPAT 141:372906				
GI					



AB Title compns. comprise binders and **azo** compound colorants I, wherein R1 = C1-21 alkyl, aryl, aralkyl, alkylamino, aralkylamino, or arylamino, C1-10 perfluoroalkyl, C2-21 alkenyl, methacryloylamino, or ethoxycarbonylamino; R2 = single bond, CH2, CH2CH2, CH2CH2CH2, or CH2CH2CH2CH2; R3 = H, C1-21 alkyl or alkoxy, halogen atom, or OH; R4 = H, C1-21 alkyl, aryl, or aralkyl, or C2-21 alkenyl; R5 = H, cationic metal atom, nitrogen-containing cationic compound; m = 0-2 integer; and n = 0-4 integer. Thus, 9.4 parts a resist solution comprising propylene glycol monomethyl ether acetate 19.20, Et lactide 36.67, 41% allyl methacrylate-methacrylic acid copolymer solution 30.51, dipentaerythritol hexaacrylate 12.20, p-methoxyphenol 0.0061, F 475 fluorosurfactant 0.83, and 2-(o-benzoyloxim)-1-[4-(phenylthio)phenyl]-1,2-octanediol 0.586 parts and 0.6 parts **azo** compound were mixed, applied on a primer-coated glass substrate, prebaked at 120° for 120 s, irradiated through a mask, developed, and washed to give a test piece with good developability and heat and light resistance.